

Cambrian

St John basin -
New Brunswick -

July / 99.

H.B. Rec.

Lower Cambrian, =

Etcheminian section of
Mattheu. Hanford Brook

above McAfee's saw
mill, St John. Co. N.B.

June 8/98

Basal Congl. - just
above an eruptive
rock shows in the S.
bank of the stream.

1) Rather coarse Congl.
pebbles - up to 6" diameter -
white qtz - jaspery reddish &
greenish calmed. At 120
up. the purple tint of
the matrix disappears &
a white bed of quartz
congl. appears.

128.

Concealed by drift

51.

150.

14,

H.B. Rec

3

2. Blank reddish-purple
+ greyish-purple fine
grained sandstone
with fine flakes of
mica. Layer 1 $\frac{1}{2}$ to
2 feet thick.

Strike N. 60° E. Dip
40° N.W. At 50
feet up the dip is 30°
at 80 feet, 20° + 1st
N. 50° E. A little

further down the bank
the strike swings to
E + W - dip N. A
syncline is formed
with a fault on the
west.

Band is 60° N.
+ 60° E. reddish-
purple + green shaly
beds.

Massive bedded
Reddish purple sds

Of 2. there is about 170
feet to fault, a s.

$$\begin{array}{r}
 48 \quad 240 \\
 \quad \quad 32 \\
 \hline
 272
 \end{array}$$

$$\begin{array}{r}
 70 \\
 \underline{23} \\
 47 \quad 350. \\
 \quad \quad 47 \\
 \hline
 397
 \end{array}$$

St. N. 40° W.

dist. 300

H. B. Rec. 3

The fault brings up the
(2nd) conglomerate
on the south side of
the bank just west
of some greenish sds
& shales. Ac 2 - is
started again from the
top bed of the Congl.

(2). Flaggy, grey & greenish-grey-
micaceous sds.
with thick beds of
sd.

It at base N. ~~55° E~~ East
dip, 25° N. W.

The greenish ~~red~~ color soon
gives way to the reddish-
purple to greyish-purple
fine grained micaceous
sds. - At 120 feet
up noted trails $\frac{1}{2}$ "
broad on surface of
thick bedded sdstone.
At 272 feet layer of
small white & 3 pebbles

3 5 0.
4 5

$$\begin{array}{r} 560 \\ 45 \end{array}$$

1870

H. B. Dec 4

appear in the dark sandstone.
The outcrops of one almost
continuous either in the
stream bed or on the banks.
Dip increases from 25° to 30°
+ gradually up to 40° . Strike
swing around to N. 65° E.

395

3. Reddish-purple
congl. - white qtz.
reddish-greenish. +
dark pebbles, some
2 to 6 inches, same
type of congl. as at
the base. ~~soft~~
~~massive pebbles~~ 30.-

4. Reddish & greenish
sdy & argl. shales &
sds with a few
thin, interbedded cal-
careous layers.
containing Hyalithes like
H. communis, Calymene -

$$\begin{array}{r}
 62. \\
 310 \\
 \hline
 40
 \end{array}$$

120

Found some very good specimens July 13/99

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5 Iphidea labradorica

+ a brachiopod, also
~~costs of a slender form~~
~~like I. cuneata Calabroids.~~

The shales became more
arenaceous & pass
into massive bedded
dark purple shales & sds.

At 135 feet the
strike changes to
N. 70° E.

At 350 feet the
sh is N. 60° E. Dip 20°
N.W.

Gap covered, at

20° Dip = 136 - of

rock.

350

136

1042.

Basal $\frac{1}{3}$ of sh

John Henne

sh. N. 50° E. Dip

30° N.W.

6 North.

[illegible]

H.B. rec. 7

The unconformity shown
by G. H. Matten between
the basal St John quartzite
& the subjacent Etchemunan
is based on a twist &
fault within the St John
quartzite. The two forma-
tions are conformable
where in contact near
the head of Leely Street
St John, and as far as
can be determined,
owing to the covered space
of -250 feet, conformable
East Hanford Brook.

The St John basal
quartzite is the base of
the Middle Cambrian.
The strata beneath
being referred to the
Lower Cambrian - The
name Etchemunan is
~~the~~ a synonym for

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8

Lower Cambrian. For
the formation in Hartford
Brook representing the
Lower Cambrian the
name Hartford might
be used. For the
Lower Cambrian of
Newfoundland the
name Manuel from
Manuels river where
the fauna was first
recognized & described.
The best section is on
Smith Sound Trinity
Bay.

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9

Middle Cambrian (Paradoxides)

31 St John quartzite.
White-quartzite in
massive layers
passing above into
greenish-tinted
rock. About 30 feet
exposed in one place.

30+

2a
2b Dark green to grayish-
green fine grained, com-
pact - hard sandstone.

Fossils - Numerous

18'

Small brachiopods -

Fauna B. 1. of Matthew.

*

Protolenax

22c
22d Fine grained dark-
grey arenaceous
argillites in thin
layers 10-20" thick

$$\begin{array}{r} 30. \\ 34 \\ \underline{18} \\ 16. \end{array}$$

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10.

That break up an exposure
into irregular shaly layers.
Dip 25° N. St. E + W. 16.

Fossils. Fauna B. 2. of
Matthew.

About midway of this
subdivision a layer
containing small phosphat.
nodules occurs. These
nodules occur in the
lower 3 inches of a 14 in
layer.

2^c Massive bed of fine
grained ~~sandy~~ grey sandstone with
a 4 feet thick unit
phosphatic nodules near
the bottom carrying
numerous fossils. Some
shaly ~~beds~~ layers &
then another layer
of sandstone 8 in thick

30.

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11.

with numerous small
phosphatic nodules with
fossils.

Fauna B. 3. of Maarten, 10.

2^a
2^d

Grey sandstone & shale
to base of *Ponadexides*
fauna -

3^d

Fauna B. 4 & 5. of
Maarten.

Strike E & W. Dip 45° N.

3. *Ponadexides* beds
a. Calcareous argillaceous
layer carrying *Ponadexides*
lamellatus?

Stenotheca -

Orthisina - etc, 3.

1st b.

Greenish-shales with
many fossils -

2^d b.

Greenish shales
carrying abundant

H.B. Sec.

Remains
etc -

12

of

Paradoxides

30 +

Cancelled above this
horizon -

St John terrace = Middle Cambrian

$$1 = 30 - 30$$

$$2a = 18.$$

$$2b = 16$$

$$2c = 10$$

$$2d = 34 - 78.$$

$$3a = 3$$

$$3b = 30 = 33$$

$$141 -$$

Harford Brook



Cambrian
 Station NB,

Lechar exposed at
 head of Reely Street
 along side of the a
 Park road.



The pre-Cambrian surface is
 irregular - A dark-reddish
 sandstone & conglomerate
 rests on it.

(St. N. 40° E. dip - 70° S. E.)

a)

Reddish congl & sd.,
 Qtz, red & greenish hard
 shale - pebbles & small
 shale concretions. - 12
 feet exposed.

St. J. -

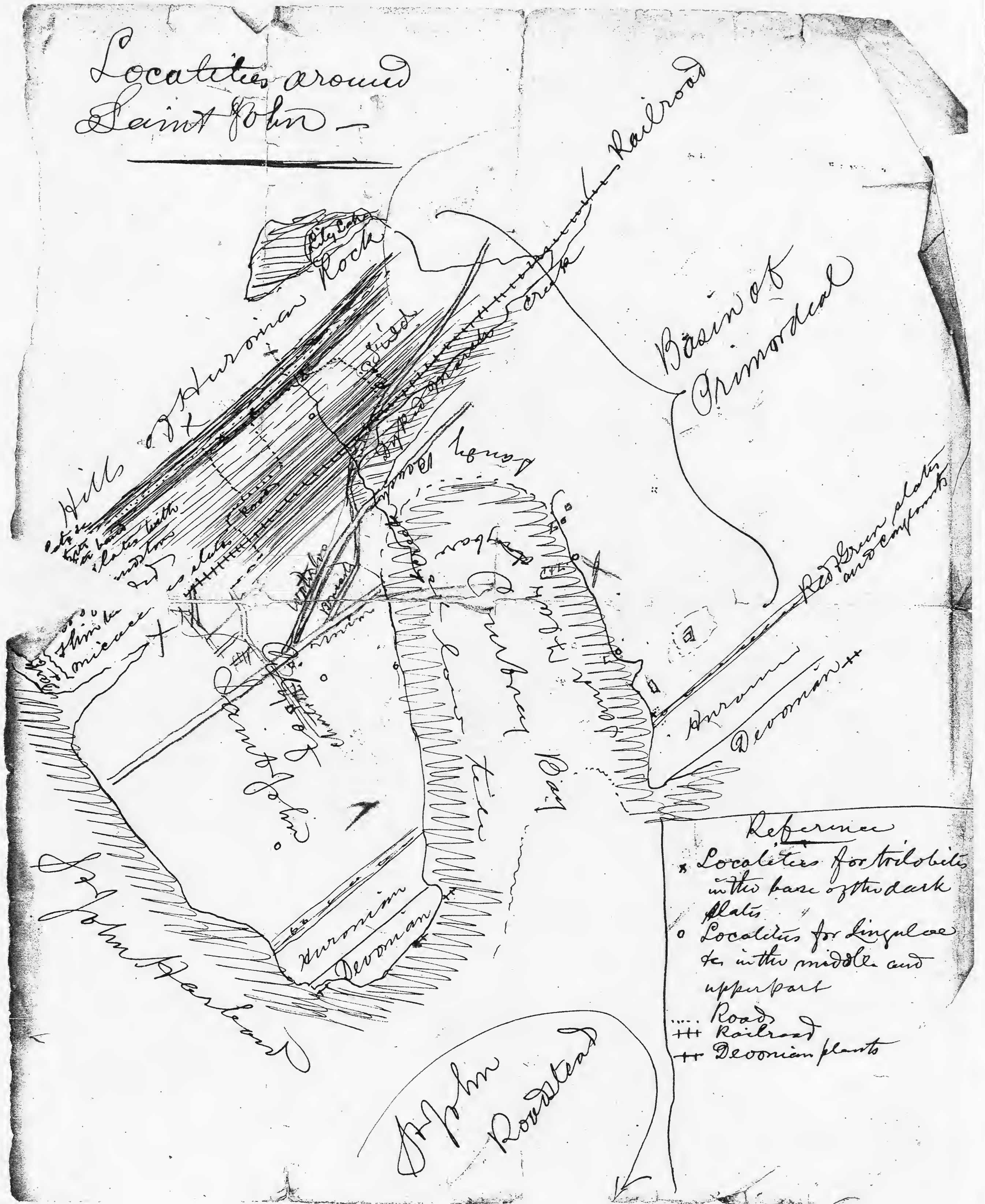
24

b. Concealed but from debris
in soil apparently red &
greenish sdy shales - 90. @ 70.

c. Reddish-purple & greenish
arenaceous-micaeous shales
& sandstone in thin
layers. 55 @ 70,

d. Light-gray. fine
grained quartzitic,
sandstone becoming
coarser above & with
a layer of white qtz
pebble conglomerate
near the top - 40 to 45 ft.
Strike here N. 55° E,
dip 70° S.E.

Localities around Saint John -



No. 25.

F R E E

Report No.

116

PORT OF

St John de Lillo

187

Imported by

John de Lillo

per

Master, from

per

Entry No.

1448

Marks and Numbers.
Number of Packages.

DESCRIPTION OF GOODS.

QUANTITY.

VALUE.
Dollars Cents.

Wm. Crocker & Co.

\$55.00